10/048,212
Updated Search
LY/cook 11/2/05

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(FILE 'HOME' ENTERED AT 14:15:20 ON 02 NOV 2005)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT 14:15:35 ON 02 NOV 2005

L1 3 S (PROTEASE? BOVINE SERUM)
L2 3 DUPLICATE REMOVE L1 (0 DUPLICATES REMOVED)
L3 4334 S (PROTEASE TREAT?)
L4 56 S L3 AND (BOVINE SERUM)
L5 1 S L4 AND AGGLUTIN?
L6 23 DUPLICATE REMOVE L4 (33 DUPLICATES REMOVED)
L7 23 S L6 NOT L5
L8 0 S (PROTEASE TREAT? BOVINE SERUM)
L9 5 S (PROTEASE TREAT? SERUM)
L10 4 DUPLICATE REMOVE L9 (1 DUPLICATE REMOVED)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT 15:07:45 ON 02 NOV 2005

L11 85510 S (BOVINE SERUM ALBUMIN)
L12 657 S L11 AND AGGLUTINATION?
L13 4 S L12 AND PEPSIN?
L14 4 DUPLICATE REMOVE L13 (0 DUPLICATES REMOVED)

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L4	56	S L3 AND (BOVINE SERUM)
L5	1	S L4 AND AGGLUTIN?
L6	23	DUPLICATE REMOVE L4 (33 DUPLICATES REMOVED)
L7	23	S L6 NOT L5
L8	0	S (PROTEASE TREAT? BOVINE SERUM)
L9	5	S (PROTEASE TREAT? SERUM)
L10	4	DUPLICATE REMOVE L9 (1 DUPLICATE REMOVED)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT 15:07:45 ON 02 NOV 2005

L11	85510	S (BOVINE SERUM ALBUMIN)
L12	657	S L11 AND AGGLUTINATION?
L13	4	S L12 AND PEPSIN?
L14	4	DUPLICATE REMOVE L13 (0 DUPLICATES REMOVED)

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ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1969:458970 CAPLUS
DN 71:58970
ED Entered STN: 12 May 1984
TI Red cell-linked antigen-antiglobulin reaction
AU Hunter, A.; Coombs, Robin R. A.
CS Univ. of Cambridge, Cambridge, UK
SO International Archives of Allergy and Applied Immunology (1969), 36, 354-75
CODEN: IAAAAM; ISSN: 0020-5915
DT Journal
LA English
CC 13 (Immunochemistry)
AB Rabbit antibody (I) to human group O erythrocytes (II) was coupled to proteins (III). Reaction of the I-III complex with II gave a reagent (IV) for determination of antibody to III. Various IV were examined by **agglutination** titers with rabbit antibody to III and goat antibody to rabbit globulin. Photooxidn. gave fairly good coupling of I to **bovine serum albumin** (BSA), β-lactoglobulin, (βL), castor bean protein, or α-lactalbumin, but only poor coupling to human serum albumin (HSA), egg albumin, or proteins from pollen extract These I-III complexes showed little direct **agglutination** (DA) when used to prepare IV. Bis-diazobenzidine (BDB) or 2,4-diisocyanotoluene gave better coupling of I to BSA, βL, HSA, or pollen extract, but there was considerable DA. Neither photooxidn. nor BDB coupled I to PPD of the tubercle bacillus. Attempts to couple I to BSA with 1-ethyl-3-[3-(dimethylamino)propyl]carbodiimide gave IV showing excessive clumping. Coupling of BSA to the 7S fraction of I gave IV showing higher titers than IV prepared with 19S or whole I, but DA was also greater. Coupling of BSA to papain-digested Fab1 fragments of I reduced DA, but only moderate coupling occurred, and the IV was readily agglutinated by normal rabbit serum. Coupling of BSA to **pepsin**-F(ab)2 fragments of I failed to reduce DA. Coupling of mercaptoethanol-treated **pepsin**-F(ab)1 fragments reduced DA, but coupling was only moderately good and this IV was agglutinated by a factor difficult to remove from rabbit antisera to human γ-globulin. Ox red cells and rabbit antibody to them could be substituted for I and II, but without improvement of IV. DA was reduced by photooxidn. of I after coupling it to III by BDB, but the effective titer of the IV was also reduced; prior photooxidn. gave I which poorly coupled by BDB to III. Removal by electrophoresis or Sephadex fractionation of free I from IV reduced but did not eliminate DA.
ST antigens erythrocyte complexes; erythrocyte antigens complexes; antibodies detn reagent; blood typing reagent
IT Antibodies
RL: BIOL (Biological study)
(antigen reactions, erythrocyte protein complexes in)
IT Proteins
RL: BIOL (Biological study)
(erythrocyte complexes, in antibody antigen reactions)
IT Erythrocytes
(protein complexes, in antibody antigen reactions)

10/048,212
Updated Search
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ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:231184 CAPLUS
DN 116:231184
ED Entered STN: 13 Jun 1992
TI Formulation and preliminary testing of a cryptococcal antibody coated latex reagent used with protease pre-treatment
AU Shinoda, Takako; Ikeda, Reiko; Nishikawa, Akemi; Ohtsuka, Morio; Sadamoto, Shinya; Sasaki, Yasuharu; Futami, Shuhei
CS Dep. Microbiol., Meiji Coll. Pharm., Tanashi, 188, Japan
SO Nippon Ishinkin Gakkai Zasshi (1991), 32(Suppl. 2, Proc. Annu. Meet. Jpn. Soc. Med. Mycol., 34th, 1990), 83-93
CODEN: NIGZE4; ISSN: 0916-4804
DT Journal
LA English
CC 9-10 (Biochemical Methods)
Section cross-reference(s): 10, 14
AB The authors defined optimal conditions for detection of cryptococcal antigen using latex particles sensitized with anti-C. neoformans globulin fractionated by 40% saturated ammonium sulfate. Latex particles, with a diameter of 0.81 μm, were sensitized with 20 μg of anti-C. neoformans globulin per mg latex. The agglutination test was performed using a mixture of 75 μL of **protease treated serum** or cerebrospinal fluid (CSF) and 25 μL of sensitized latex suspension. After 10 min reaction on a rotator, the agglutination was read. The authors compared the minimal concentration of polysaccharide antigen detectable with our materials and procedure and with com. available kits and obtained almost the same sensitivities. However, their procedure was also capable of detecting antigen in soluble immune complexes in patient's serum. The sensitivity of their latex agglutination test using the sensitized latex particles was found to be 100% in cases of cryptococcal meningitis, 81.8% in pulmonary cryptococcosis and 75% in cutaneous cryptococcosis. The specificity of this test was 100% with sera and 95% with CSF. Com. kit B was the more useful because of its protease pre-treatment which reduced the problems of false positives due to rheumatoid factor and false neg. due to soluble immune complexes.
ST Cryptococcus antigen latex agglutination test
IT Antigens
RL: ANST (Analytical study)
(cryptococcal, detection of)
IT Cryptococcus neoformans
(detection of, by immunoassay)
IT Immunoassay
(latex agglutination test, for cryptococcal antigens)
IT 9001-92-7, Protease
RL: ANST (Analytical study)
(in cryptococcal antigens detection)